

# Display Protection Films Cross Reference

## Data Summary Sheet

FEBRUARY 2014

**Description:** 3M™ Display Protection Films use 3M's advanced coating technology to provide increased screen readability and durable protection with a residue-free, self-wetting adhesive for application on electronic displays.

**Typical Properties:** Technical information provided consists of typical product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.

	Attribute	ARMR220	Glossy LR
Features	Removable/replaceable	●	●
	LCD Protection	●	●
	Reflection Reduction	●	●
	Anti-glare	●	
	High Clarity		●
	Easy to clean	●	●
	Non-conductive	●	●
Physical Specs	Thickness (mm)	0.155	0.130
	Abrasion (Steel wool, 3M TM-095)	25 g/cm <sup>2</sup> , 10 rubs, Light scratching	50 g/cm <sup>2</sup> , 10 rubs, Light scratching
	Pencil Hardness ASTM D3363-05	3H (500 g)	3H (200 g)
	Disinfectant Cleaning	3M™ Neutral Quat Disinfectant Cleaner 23H and 23L, 3M™ Quat Disinfectant Cleaner 5H and 5L, 3M™ Phenolic Disinfectant Cleaner 18H and 18L, Clorox™ Germicidal Wipes, Ecolab® Virasept™ Ready-to-Use, Diversey™ Oxiver® Tb Wipes, Metrex CaviWipes™, PDI Super Sani-Cloth® Germicidal Disposable	
	Chemical Resistance	Bleach, MEK, IPA, Acetone, Window Cleaner, Motor Oil, Cola, Coffee, water insoluble marker, water	
Optical Specs	Reflection	1.50%	1.90%
	Transmission	96%	96%
	Haze	2.50%	0.60%
	Clarity	80%	≥99.9%

**Applications:** 3M Display Protection Films are typically used to provide display protection and viewing enhancement for electronic displays, especially in environments where bright light conditions can disrupt display readability.

Protection film options include a combination anti-reflection/anti-glare protection film to enhance the viewing experience by reducing ambient light reflection on a display as well as diffusing mirror-like reflections or a low reflection gloss protection film to reduce screen reflections while retaining the high clarity of a gloss display. By providing a durable hardcoat barrier between the display surface and the user or environment, DSP films help to protect against scratches and damage to the display. The residue-free adhesive technology gives an easy-to-apply and easy-to-remove application experience for the user.



## ARMR220

ARMR220 is the lowest reflection option and includes an anti-glare (AG) matte surface to diffuse specular reflections of bright light sources

- Applications using a mounted display where the user cannot easily move the display to avoid direct reflection from bright sources
- Applications where the display is used in bright ambient conditions

## Glossy Low Reflection

Glossy Low Reflection reduces display reflection by about half while retaining the clarity of a high gloss display

- Applications where the user can easily move the display to avoid direct reflection from bright sources
- Applications where the display is used in bright ambient conditions
- Applications where a high gloss front surface is needed to retain the maximum sharpness of the display

## Shelf Life & Storage (prior to application):

Material should be stored in its original packaging, lying in a horizontal orientation, away from direct sunlight. Heavy objects should not be placed on top of it to avoid damaging the product. Ambient temperature and humidity should be controlled to 10 – 30° C at 30 – 60% relative humidity.

## Availability:

For availability, please contact your local Motion Reseller or Motion Representative.

US and Canada: **1-866-682-2538**

For more information and local websites, please visit:

**[www.MotionComputing.com](http://www.MotionComputing.com)**



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